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In the Claims

Please cancel claims 39-53, and 55-86 without prejudice or disclaimer.

Applicant presents a full set of claims as amended below.

- (Original) A method for treating a subject, comprising:
 administering a CpG nucleic acid to a subject infected with human immunodeficiency virus
 (HIV) in an effective amount to treat HIV infection.
- 2. (Original) The method of claim 1, wherein the CpG nucleic acid does not include a palindrome.
- 3. (Original) The method of claim 1, wherein the CpG nucleic acid is an adjuvant-type CpG nucleic acid.
- 4. (Original) The method of claim 1, wherein the CpG nucleic acid is a IFN- α -inducing CpG nucleic acid.
- 5. (Original) The method of claim 1, further comprising administering an anti-HIV therapy.
- 6. (Original) The method of claim 5, wherein the anti-HIV therapy is an inhibitor of HIV replication.
- 7. (Original) The method of claim 6, wherein the inhibitor of HIV replication is a protease inhibitor.
- 8. (Original) The method of claim 6, wherein the inhibitor of HIV replication is HAART.

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9. (Original) The method of claim 5, wherein the anti-HIV therapy is a cytokine or a chemokine.

- 10. (Original) The method of claim 5, wherein the anti-HIV therapy is administered in a sub-therapeutic dosage and wherein the combination of the sub-therapeutic dose of the anti-HIV therapy and the CpG nucleic acid produce a therapeutic result in the treatment of HIV infection.
- 11. (Original) The method of claim 5, wherein the CpG nucleic acid is administered in a subtherapeutic dosage and wherein the combination of the sub-therapeutic dose of the anti-HIV therapy and the CpG nucleic acid produce a therapeutic result in the treatment of HIV infection.
- 12. (Original) The method of claim 5, wherein the anti-HIV therapy is administered at the same time as the CpG nucleic acid.
- 13. (Original) The method of claim 5, wherein the anti-HIV therapy is administered prior to the CpG nucleic acid.
- 14. (Original) The method of claim 5, wherein the anti-HIV therapy is administered prior to the initial administration of CpG nucleic acid and the anti-HIV therapy is continued during the administration of the CpG nucleic acid.
- 15. (Original) The method of claim 14, wherein the anti-HIV therapy is terminated.
- 16. (Original) The method of claim 15, wherein the anti-HIV therapy is terminated at least one week after the initial administration of CpG.
- 17. (Original) The method of claim 5, wherein the CpG nucleic acid is administered prior to the initial administration of anti-HIV therapy and the CpG nucleic acid is continued during the administration of the anti-HIV therapy.

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18. (Original) The method of claim 5, wherein the CpG nucleic acid and the anti-HIV therapy are administered in alternating cycles.

- 19. (Original) The method of claim 18, wherein the alternating cycles are monthly cycles.
- 20. (Original) The method of claim 9, wherein the cytokine is T-cell activating cytokine.
- 21. (Original) The method of claim 9, wherein the T-cell activating cytokine is IL-2.
- 22. (Original) The method of claim 9, wherein the chemokine is selected from the group consisting of RANTES and MIP- 1α .
- 23. (Original) The method of claim 1, further comprising administering a non-steroidal antiinflammatory agent.
- 24. (Original) The method of claim 23, wherein the non-steroidal anti-inflammatory agent is Piroxicam, Mefenamic acid, Nabumetone, Sulindac, Tolmetin, Ketorolac, Rofecoxib, Diclofenac, Naproxen, Flurbiprofen, Celecoxib, Oxaprozin, Diflunisal, Etodolac, Fenoprofen, Ibuprofen, Indomethacin, Ketoprofen, Etodolac, and Meloxicam.
- 25. (Original) The method of claim 3, wherein the adjuvant-type CpG nucleic acid has a sequence including at least the following formula:

5'[TCN₁TN₂X₁X₂CGTT]N₃[X₁X₂CGTT]N₄[X₁X₂CGTT] 3' (SEQ ID NO: 33), wherein N₄ is about 0-26 bases with the proviso that N₄ does not contain a CCGG quadmer or more than one CCG or CGG trimer.

- 26. (Original) The method of claim 25, wherein N₄ is selected from the group consisting of nothing, any nucleotide, C, T, TT, TTTT, and TC.
- 27. (Original) The method of claim 25, wherein N₃ and N₄ are both TT.

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- 28. (Original) The method of claim 25, wherein X_2 is T.
- 29. (Original) The method of claim 25, wherein X_1 is G.
- 30. (Original) The method of claim 4, wherein the IFN-α-inducing CpG nucleic acid comprises the following sequence

wherein G is guanine; C is unmethylated cytosine; X₁, X₂, X₃, and X₄ independently are single nucleotides; N₁ and N₂ are independently nucleic acid molecules each having between 0 and 20 nucleotides; N₁X₁X₂CGX₃X₄N₂ (SEQ ID NO: 74) includes a palindrome at least 6 nucleotides long that contains at least one CG; Y₁ is a nucleic acid molecule having between 1 and 8 nucleotides comprising at least one modified internucleotide linkage; and Y₂ is independently a nucleic acid molecule having between 3 and 8 nucleotides comprising at least 3 consecutive Gs and at least one modified internucleotide linkage.

- 31. (Original) The method of claim 30, wherein at least one modified internucleotide linkage is a phosphorothioate modified linkage.
- 32. (Original) The method of claim 30, wherein Y₁ is comprised of at least 3 Gs.
- 33. (Original) The method of claim 30, wherein Y_1 is comprised of all Gs.
- 34. (Original) The method of claim 30, wherein Y₂ is comprised of at least 4 Gs.
- 35. (Original) The method of claim 30, wherein Y₂ is comprised of all Gs.
- 36. (Original) The method of claim 30, wherein Y_1 includes between two and five modified internucleotide linkages and Y_2 includes between two and five modified internucleotide linkages.
- 37. (Original) The method of claim 30, wherein the palindrome has a phosphodiester backbone.

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38. (Original) The method of claim 1, wherein the CpG nucleic acid has less than or equal to 100 nucleotides.

39-53. (Canceled)

54. (Original) A method for treating a subject, comprising: administering a CpG nucleic acid and an anti-HIV therapy to a subject infected with human immunodeficiency virus (HIV) in an effective amount to treat HIV infection.

55-86. (Canceled)